

## Polyclonal Antibody to PUMA alpha/beta (C-term) - Purified

<b>Alternate names:</b>	BBC3, Bcl-2-binding component 3, JFY-1, p53 up-regulated modulator of apoptosis
<b>Catalog No.:</b>	SP7151P
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	A novel p53 inducible pro-apoptotic gene was identified recently and designated PUMA (for p53 upregulated modulator of apoptosis) in human and mouse. The PUMA gene encodes two BH3 domain-containing proteins termed PUMA-alpha and PUMA-beta. PUMA proteins bind Bcl-2, localize to the mitochondria, and induce cytochrome c release and apoptosis in response to p53. PUMA may be a direct mediator of p53-induced apoptosis.
<b>Uniprot ID:</b>	<a href="#">Q9BXH1</a>
<b>NCBI:</b>	<a href="#">NP_001120712.1</a>
<b>GeneID:</b>	<a href="#">27113</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	A portion of amino acids 150-193 of Human PUMA alpha <b>AA Sequence:</b> PLPRGHRAPEMEPEPN <b>Remarks:</b> The amino acid sequence used as immunogen is 100% homologous in Human (PUMA alpha and beta) and 78% homologous in Mouse and Rat.
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Purification:</b> Protein G Chromatography <b>Buffer System:</b> PBS <b>Preservatives:</b> 0.05% Sodium Azide <b>Stabilizers:</b> 0.2% Gelatin
<b>Applications:</b>	<b>Western blot:</b> 1/500-1/1,000. <b>Immunohistochemistry on Paraffin Sections:</b> See <i>Karst et al</i> , 2005. <i>Recommended Positive Control:</i> Jurkat or NIH 3T3 cell lysate. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Molecular Weight:</b>	~22 kDa (Human PUMA alpha, 193 aa) and ~15 kDa (Human PUMA beta, 131 aa)
<b>Specificity:</b>	This antibody is specific for PUMA alpha/beta (C-term). <b>Species:</b> Human, Mouse. Other species not tested.

**Storage:**

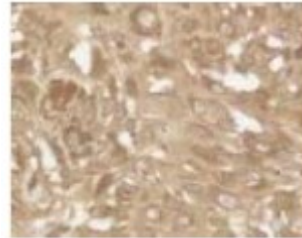
Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

**General Readings:**

1. Nakano K., et al. Mol Cell. 7(3):683-94 (2001).
2. Yu J., et al. Mol Cell. Vol 7,673-682 (2001).
3. Han J., et al. Proc Natl Acad Sci U S A. 98(20):11318-23 (2001)
4. Karst AM, Dai DL, Martinka M, Li G. PUMA expression is significantly reduced in human cutaneous melanomas. Oncogene. 2005 Feb 3;24(6):1111-6. PubMed PMID: 15690057.

**Pictures:**

PUMA expression in human dysplastic nevi (pre-malignant melanoma).



Western blot analysis for Puma alpha (C-term) using SP7151P at 1/500 against 30 µg/lane of A) Jurkat and B) NIH 3T3 whole cell lysate.

